

M 5.4, 75 km WSW of Alianza Cristiana, Peru

Origin Time: 2021-08-15 05:40:02 UTC (Sun 00:40:02 local)
Location: 3.6826° S 77.0848° W Depth: 95.6 km

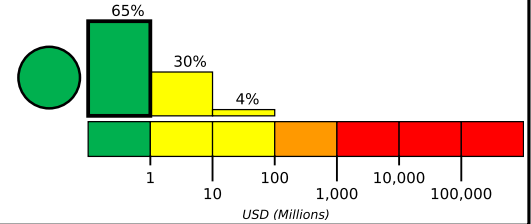
Created: 2 hours, 2 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

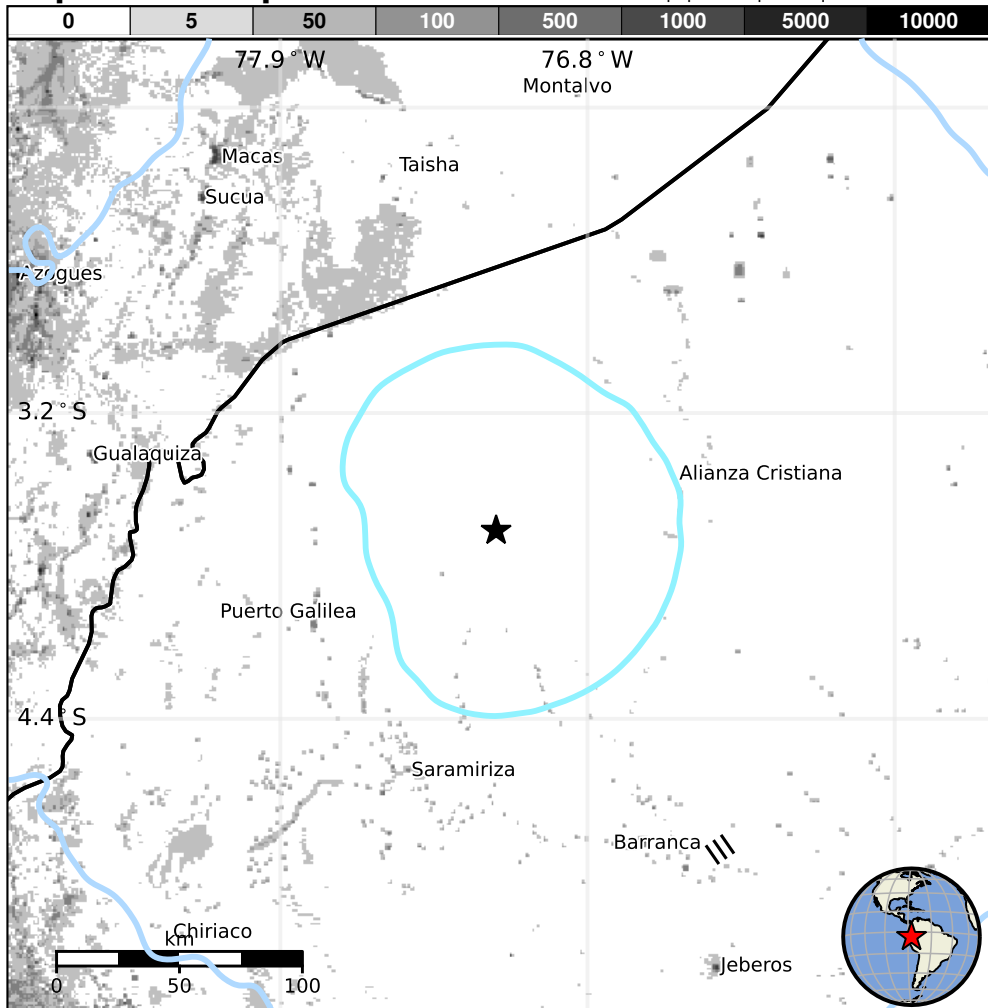


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	838k	12k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-09-22	315	6.3	VI(53k)	2
1990-06-09	268	5.5	VII(112k)	1
1990-05-30	260	6.5	VIII(131k)	135

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Alianza Cristiana	<1k
III	Saramiriza	<1k
III	Puerto Galilea	<1k
III	San Lorenzo	<1k
III	Barranca	6k
III	Taisha	<1k
III	Macas	24k
III	Yantzaza	10k
III	Gualaceo	17k
III	Azogues	35k
II	Alausi	14k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000f6ge#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000f6ge